

# Key-type Selector Switches

## A30NZ-□M□-01□A

**Keyed 30-mm Selector Switches**  
**Universal Design.**  
**Emphasis on Color Coding, Workability,**  
**and Safety.**

### Easy to Use

- You can connect up to three Contact Blocks in one stage for multistage expansion.
- The terminals can be retightened when Contact Blocks are stacked.
- Contact Blocks can be attached in any direction for easy assembly.
- Screw terminal structure is compatible with round crimp terminals.



### Safety

- Easy-to-operate lock lever for secure locking.
- Easy-mounting Contact Blocks provide finger protection.
- Different colors of Contract Blocks (NO: blue, NC: orange) help prevent wiring errors.

### Product Lineup

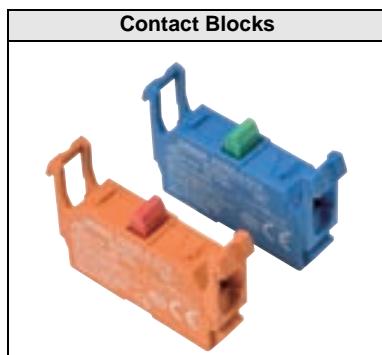
- Meet global safety standards.
- All models are keyed alike.



Refer to *Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions* in the A30NZ-□□□-□□A datasheet

## Structure

**Subassemblies** ----- Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.



**Note:** Use a Reinforcement Plate for greater strength.



- Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.
- Accessories and tools: Refer to the A22NN/A22NL.
- Dimensions: Refer to page 7.

## Model Number Structure

**Model Number Legend** ----- Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.

### Subassemblies

A 3 0 N (1) (2) (3) - (4) (5) (6)  
 A 3 0 N [Z] - [2 M] [M] - [0 1] [A] [A]

#### (1) Type

Code	Type
Z	Subassembly

#### (4) Key Number

Code	No.
01	No.1

#### (2) Number of Positions and Bezel Material

Code	No. of positions	Bezel material
2M	2	Brushed metal
3M	3	Brushed metal

#### (3) Reset Method

Code	Reset method	
M	Manual	Two-position manual
		Three-position manual
L	Automatic reset on left	Two-position automatic
		Three-position left automatic
R	Automatic reset on right	Three-position right automatic
B	Automatic reset on left and right	Three-position left or right automatic

#### (5) Key Release Position

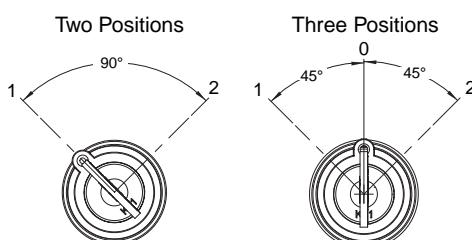
Code	Release position	Two positions	Three positions
A	All positions		
B	Left		
C	Right		
D	Center	---	
E	Left and center	---	
F	Right and center	---	
G	Left and right	---	

○: Release position  
 ●: Locked position

#### (6) Degree of Protection

Code	Protection
A	IP66

### Operation Angle



■ Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.  
 ■ Dimensions: Refer to page 7.

■ Precautions for correct use: Refer to the A30NZ-M□□-□□A.

**Type**

**Subassemblies** ----- Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.

**Operation Units**

Bezel material and shape		Brushed metal	(1) Key release positions
		Model	
No. of positions	Reset method		
2	Manual	A30NZ-2MM-01(1)A	A: All positions B: Left C: Right
	Automatic reset on left	A30NZ-2ML-01(1)A	A: All positions B: Left C: Right D: Center E: Left and center F: Right and center G: Left and right
3	Manual	A30NZ-3MM-01(1)A	
	Automatic reset on left	A30NZ-3ML-01(1)A	
	Automatic reset on right	A30NZ-3MR-01(1)A	
	Automatic reset on left and right	A30NZ-3MB-01(1)A	

■ Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.

■ Accessories and tools: Refer to the A22NN/A22NL.

■ Dimensions: Refer to page 7.

## Ordering Information

**Subassemblies** -- Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.

### Mounting Collar

Appearance	Model
	A22NZ-H-01

### Contact Blocks

Appearance	Contact Specification	Model
	SPST-NO (blue)	A22NZ-S-G1A
	SPST-NC (orange)	A22NZ-S-G1B

### Reinforcement Plate

Appearance	Model
	A22NZ-A-C01

### Accessories

Appearance	Model
Key	A22NZ-K-01

**Specifications (When Operation Unit, Mounting Collar, and Contact Blocks Are Combined)****Characteristics**

Type		Key-type Selector Switches
Allowable operating frequency	Mechanical	30 operations/minute max.
	Electrical	30 operations/minute max.
Insulation resistance		100 MΩ min. (at 500 VDC)
Contact resistance		100 mΩ max. (initial value)
Dielectric strength	Between terminals of same polarity	2,500 VAC at 50/60 Hz for 1 min
	Between each terminal and ground	2,500 VAC at 50/60 Hz for 1 min
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)
Shock resistance	Malfunction	1,000 m/s <sup>2</sup> max. (malfunction within 1 ms)
Durability	Mechanical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)
	Electrical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)
Ambient operating temperature <sup>*1</sup>		−25 to 70°C
Ambient operating humidity		35% to 85% RH
Ambient storage temperature <sup>*1</sup>		−40 to 80°C
Degree of protection <sup>*2</sup>		IP66
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination (application environment)		3 (IEC 60947-5-1)
Weight		Approx. 75 g (for 1NC/1NO)

<sup>\*1</sup>1. With no icing or condensation.<sup>\*2</sup>2. Degree of protection from the front of the panel.**Operating Characteristics (for SPST-NO/ SPST-NC)**

Type	Key-type Selector Switches	
	Manual reset	Automatic reset
Total travel force (torque) (maximum TTF)	0.6 N·m	0.6 N·m
Total travel (TT)	2 positions: Approx. 90°, 3 positions: Approx. 45°	
Resetting force (torque) (RF)	0.5 N·m max.	---

Note: For Knob-type or Key-type Selector Switches, this is the rotational torque.

**Examples of Linked Contact Blocks**

Linking example	Key-type Selector Switches	
	2 positions	3 positions

Note: If you increase the number of Contact Blocks, evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.

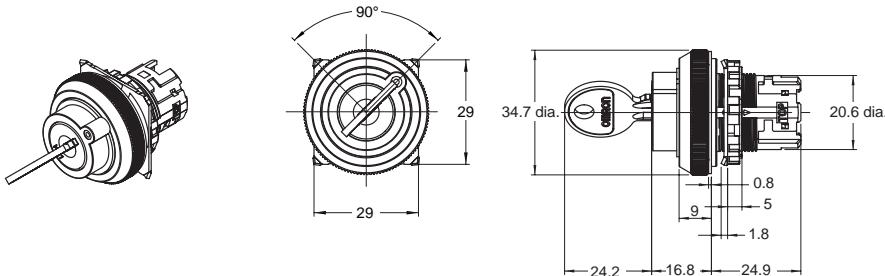
(Unit: mm)

## Dimensions

### Lighted and Non-lighted Key-type Selection Switches

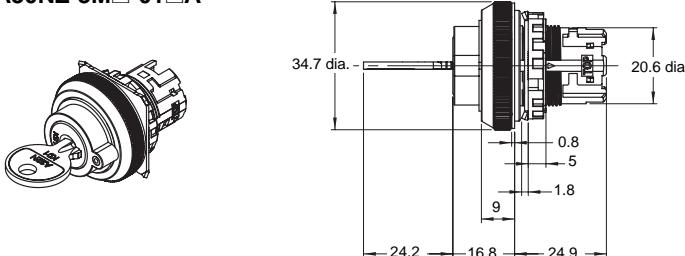
#### Two-position Switches with Brushed Metal Bezels

A30NZ-2M□-01□A

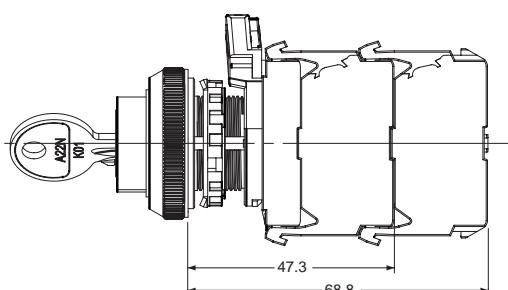


#### Three-position Switches with Brushed Metal Bezels

A30NZ-3M□-01□A



#### Depth with Linked Units



## Safety Precautions

Refer to **Safety Precautions for All Pushbutton Switches/Indicators** for common precautions.  
Read the **Safety Precautions** in the A30NZ-M□□-□□A datasheet.

#### Precautions for Correct Use

Insert the key all of the way to the back of the cylinder before you turn it.

## MEMO

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CSM\_1\_1\_0415  
Cat. No. A245-E1-01

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